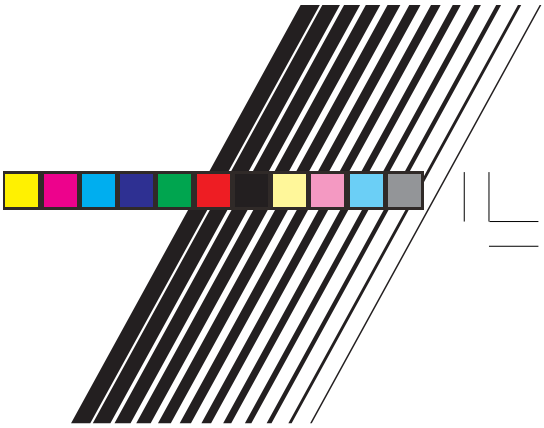

EQUALIZER • CINEMA SURROUND • COMPONENT INPUT

Contents

Knowing your TV's features 3
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Basic setting for picture 9
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INSTRUCTIONS

GGT0096-001A-H

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for buying this JVC colour television.
your new TV, please read this manual thoroughly before you begin.

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areful with it
d, wipe it
cleaner or

7 If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.
8 The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: **<AV-21YS24/AV-21YX50 only>**
A REMOVABLE PLASTIC COVER IS FIXED TO THE TELEVISION'S FRONT AUDIO/VIDEO CONNECTOR.
TO PREVENT THIS COVER FROM BEING ACCIDENTALLY SWALLOWED BY BABIES OR CHILDREN, REMOVE IT FROM THE TELEVISION AND STORE IT IN A SAFE PLACE. IF THE COVER IS SWALLOWED SEEK THE ADVICE OF A DOCTOR IMMEDIATELY.

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ou can view teletext programmes which are broadcasted by some TV channels. Teletext rogramme is an information in text form.
ou can register up to four favorite channels for quick recall with one press.
V adjusts the volume automatically to the same level for all TV channels to avoid sudden hange of the volume when selecting different TV channel.
ou can reduce the picture noise when viewing noisy TV programmes or video sources.
ou can choose one of three tones of white to match the video source such as movie, ports, etc. Changing WHITE BALANCE affects the appearance of all other colours on the creen.
o prevent accidental operation by your child, you can disable the control buttons on the V.

ons

his instruction manual may not be available for your TV.
concerned to a function that is not available for your TV, it does not work and the reen. For a function that is not available for your TV, it is not displayed in the

odel No.	AV-21YX50	AV-20NX50	AV-21YS24
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nd basic functions

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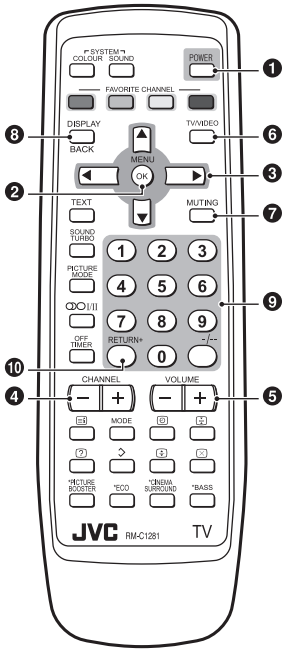
ction.

olume.
o terminal number and PR list (channel list) on the

R list.
splay the PR list.
se a channel, then press the MENU/OK button.
n the PR list. The channels set to favorite channels are

ton to return to the previous menu.
digits programme number, press -/--, then press the

l with one touch.
egister.
until “RETURN PLUS PROGRAMMED!” appears.
button until “RETURN PLUS CANCELED!” appears.
nnel, if you have not set or have cancelled the Return



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Note
e MENU, e DISPLAY/ utton* ❽ or EXIT menu.
button ❸ to he next page functions.
–
e MENU/OK ❾ to exit from u.
–

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cated in ntrol. e control.

	Top menu	2nd menu	Location	3rd menu	Location
MENU	INPUT	EXT. INPUT	P.17	–	–
		DISPLAY	P.17	–	–
	PICTURE * If you want to adjust PICTURE SETTING menu, you must set PICTURE MODE menu to USER.	PICTURE MODE	P.9	–	–
		PICTURE SETTING	P.10	–	–
		WHITE BALANCE	P.10	–	–
		PICTURE FEATURES	–	VNR	P.16
				FAVORITE CH SETTING	P.15
				VIDEO SETTING	P.15
				COLOUR SYSTEM	P.9
				PICTURE BOOSTER	P.10
				COMPRESS (16:9)	P.11
	SOUND * If you want to adjust EQUALIZER menu, you must set SOUND MODE menu to USER.	STEREO/**I•II**	P.14	–	–
		AI VOLUME	P.14	–	–
		SOUND MODE	P.13	–	–
		EQUALIZER	P.14	–	–
		BALANCE	P.13	–	–
		SOUND TURBO	P.13	–	–
		CINEMA SURROUND	P.14	–	–
	FEATURES	OFF TIMER	P.16	–	–
		CHILD LOCK	P.16	–	–
	INSTALL	AUTO PROGRAM	P.18	–	–
		EDIT/MANUAL	P.18	DELETE, MOVE, MANUAL,INSERT	P.18-P.19
		LANGUAGE	P.16	LANGUAGE	P.16
		BLUE BACK	P.11	–	–
		AUTO SHUTOFF	P.17	–	–
		VIDEO-2 SETTING	P.17	–	–
		TEXT LANGUAGE	P.12	TEXT LANGUAGE	P.12
	EXIT	–	–	–	–

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50 only, which are used for explanation purpose.

No.	Button/terminal	Description	Page
❶	⏻ (main power)	Press to turn on or turn off the TV's main power.	–
❷	POWER lamp	Indicate the TV is being turned on or off. No colour : TV's main power is being turned off. Red : TV's main power is being turned on.	–
❸	TIMER lamp	Indicate the OFF TIMER function is being turned on or off. No colour : The OFF TIMER function is being turned off. Orange : The OFF TIMER function is being turned on.	–
❹	Remote control sensor		–
❺	VOLUME -/+	Press to adjust the volume level.	–
❻	CHANNEL -/+	Press to select the desired channel.	–
❼	MENU	Press to display the menu.	–
❽	IN (VIDEO-3)	Video and audio input jacks for VIDEO-3 mode.	21
	IN (VIDEO-2)	Video and audio input jacks for VIDEO-2 mode.	21
❾	🎧	Headphone jack.	21
❿	⊤	Aerial socket.	7
⓫	OUTPUT	Video and audio output jacks. (The component video signal cannot be output.)	21
⓬	COMPONENT (VIDEO-2) INPUT	Video or component video, and audio input jacks for VIDEO-2 mode. You can select the input signal by setting the "VIDEO-2 SETTING" function (see page 17).	21
⓭	VIDEO-1 INPUT	Video and audio input jacks for VIDEO-1 mode	7

How to operate the menus with the TV button

TV button	Work as same as the button on the remote control unit	Note
MENU	MENU/OK button	To display main menu and exit menu after finish setting.
CHANNEL -/+	▼/▲ button	To select menu function.
VOLUME -/+	◄/► button	To adjust the desired function.

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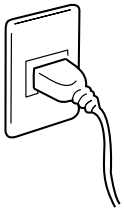
2 Connecting the compatible main plug to the AC outlet.



3 Inserting batteries into the remote control.

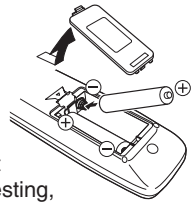
Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.

CAUTION:

Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
- It the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



4 Turn on the TV by pressing the main power button.

JVC logo appears on the screen.

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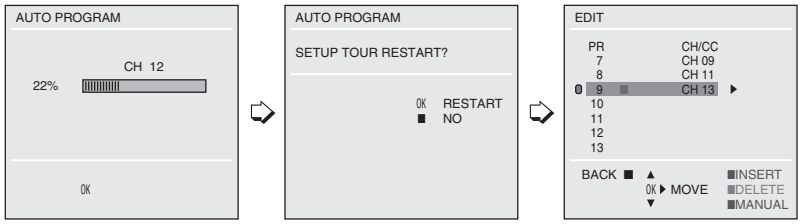
or 15 seconds, then operate the TV menu by following the steps as below:



- TV will start searching for the channels.

  To stop AUTO PROGRAM, press MENU/OK button.

- Press the red button to cancel the SETUP TOUR RESTART function.
  If you want to make initial settings again when the next time you turn on the TV, press the MENU/OK button to activate the SETUP TOUR RESTART function.

- To complete the initial setting, press the MENU/OK button. To edit the channel list, see page 18.

XT LANGUAGE and AUTO PROGRAM functions to make the initial settings.

tial settings, press the TV/VIDEO button to exit from initial settings.

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S menu

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	System
,	PAL
	PAL
	PAL
	SECAM
	NTSC
	SECAM
	PAL
	PAL
	PAL
	PAL
	PAL
	PAL
	SECAM

PICTURE MODE

You can choose the desired picture setting with one-touch. Press the PICTURE MODE button to select a setting.

SOFT	Softens contrast and sharpness.
BRIGHT	Heightens contrast and sharpness.
STANDARD	Standard picture setting.
USER	You can change this picture setting as you like. Select USER and adjust following items in the PICTURE SETTING menu. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT*)

*TINT can only be adjusted in NTSC system.

To operate this function with a menu:

✳ (MENU) ➡ (PICTURE menu) ➡ (PICTURE MODE)

To return the USER setting to the default, press the blue button when the PICTURE SETTING menu appears.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.
Select the WHITE BALANCE in the PICTURE menu, then choose the desired setting.

✳ (MENU) ➔ (PICTURE menu) ➔ (WHITE BALANCE)

NORMAL	Normal white balance.
COOL	Bluish white.
WARM	Reddish white.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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List mode.

2 Press a colour button, then press the number buttons to enter the page number.
3 Press and hold down the ◇ (Store) button.
The page number is blinking white to indicate that they are stored in memory.
4 To store other favorite teletext pages, repeat Step 2 to 3.

To recall the favorite teletext page, press the MODE button, then press the colour button.
To exit the List mode, press the MODE button again.
When viewing teletext programme, menu operations are not available.
If characters on a teletext programme do not appear properly, change the TEXT LANGUAGE setting.

TEXT LANGUAGE

You can set the Teletext language group that corresponds to the programmes.
Select TEXT LANGUAGE in the INSTALL menu, then choose the desired language group.

✳ (MENU) ➡ (INSTALL menu) ➡ (TEXT LANGUAGE)

GROUP-1	English, German, Swedish / Finnish / Danish / Hungarian, Italian, French, Spanish / Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech / Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian

Depending on the broadcast, the language set may not display properly. For details, see in page 8.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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e table

	System
s,	B/G
	D/K
	I
.	B/G
	M
	D/K
	D/K
	B/G
	I
	B/G
	I
	B/G
	B/G

SOUND MODE

You can choose the desired sound setting.
Select the SOUND MODE in SOUND menu, then choose the setting.

✳ (MENU) ➡ (SOUND menu) ➡ (SOUND MODE)

USER	You can change this sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (100, 300, 1K, 3K, 8K Hz). For details, see “EQUALIZER” on page 14.
DYNAMIC	Emphasize on both vocal sound and music.
MUSIC	Emphasize on music effect.
NEWS	Emphasize on vocal sound.

BALANCE

You can adjust the volume balance between the left and right speakers.
Select the BALANCE in SOUND menu, then adjust the setting.

✳ (MENU) ➡ (SOUND menu) ➡ (BALANCE)

SOUND TURBO

You can enjoy the emphatic low and high frequency levels.

Press the SOUND TURBO to select ON or OFF.
To operate this function with a menu:

✳ (MENU) ➡ (SOUND menu) ➡ (SOUND TURBO)

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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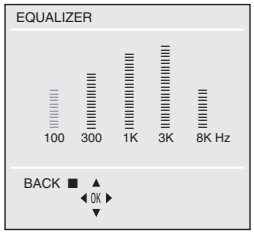
EQUALIZER

You can adjust the sound level of each frequencies when selecting USER mode in SOUND MODE.

1 Select the USER in SOUND MODE under SOUND menu.
✳ (MENU) ➔ (SOUND menu) ➔ (SOUND MODE) ➔ (USER)

2 Select the EQUALIZER in SOUND menu.
✳ (MENU) ➔ (SOUND menu) ➔ (EQUALIZER)

The following display appears.



3 Select and adjust the desired frequencies.

4 Press the MENU/OK button to exit the menu.

Adjust high frequency will affect higher pitch sound and vice versa.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically.
Select the AI VOLUME in SOUND menu, then choose ON or OFF.

✳ (MENU) ➔ (SOUND menu) ➔ (AI VOLUME)

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

eo setting

4 Select the desired item that you wish to adjust.
CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR
SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT

5 Press the MENU/OK button to exit the menu.

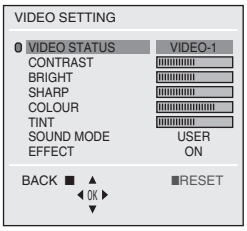
To adjust the video setting (VIDEO SETTING)

You can adjust the picture and sound settings for video inputs.

1 Display the PICTURE menu and select VIDEO SETTING in PICTURE FEATURES menu.
✳ (MENU) ➡ (PICTURE menu) ➡ (PICTURE FEATURES menu) ➡ (VIDEO SETTING)

2 Select VIDEO STATUS in VIDEO SETTING menu, then choose the desired video input.
✳ (VIDEO SETTING) ➡ (VIDEO STATUS)

3 Select EFFECT, then press ◄/► button to choose ON.
To cancel the settings, choose OFF.



4 Select the desired item that you wish to adjust.
CONTRAST ↔ BRIGHT ↔ SHARP ↔ COLOUR
SOUND MODE (USER, DYNAMIC, MUSIC, NEWS) ↔ TINT

5 Press the MENU/OK button to exit the menu.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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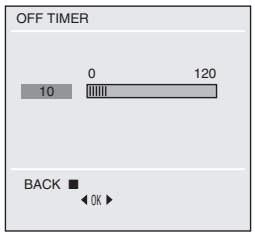
CHILD LOCK

You can disable the front control buttons of the TV.
Select the CHILD LOCK in the FEATURES menu, then choose ON or OFF.

✳ (MENU) ➔ (FEATURES menu) ➔ (CHILD LOCK)

OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.
Press the OFF TIMER button to select a desired period of time.



You can set the period of time to a maximum of 120 minutes in 10 minutes step.

To operate this function with a menu:

✳ (MENU) ➔ (FEATURES menu) ➔ (OFF TIMER)

When the elapsed of time left one minute, “GOOD NIGHT!” appears on the screen.
You can display the OFF TIMER menu again to confirm or change the remaining time.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

EXT. INPUT (TV/VIDEO)

You can select TV or video terminal input with one touch.
Press the TV/VIDEO button to select an input.
To operate this function with a menu:

✳ (MENU) ➡ (INPUT menu) ➡ (EXT. INPUT)

DISPLAY

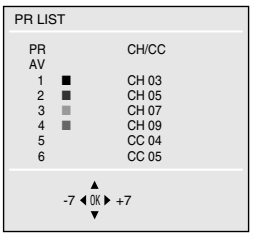
You can display the programme number, video terminal number and PR list on the screen.
Press the DISPLAY button to select the desired mode:

ON → OFF → PR LIST

Choose a TV channel or a VIDEO terminal.

1 Press the DISPLAY button to display the PR LIST.

2 Select a programme number or video terminal by pressing the ▲/▼ button to move up/down on the programme number or press the ◄/► button to skip for each 7 programme numbers, then press MENU/OK button.



To operate this function with a menu:

✳ (MENU) ➡ (INPUT menu) ➡ (DISPLAY)

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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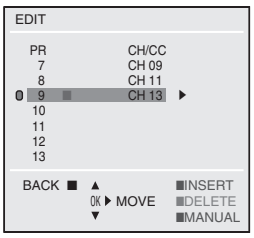
2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.



3 Choose the channel which you want to register.

4 Press the blue button to activate the MANUAL function.
The sound system of the channel appears at the right of the CH/CC number.

5 Press the ► button to choose an appropriate sound system.
For details, see “SOUND SYSTEM” on page 13.

6 Press the green or red button to search for the TV channel.
Searching stops when a channel is found and displayed.

7 Repeat step 5 until your desired TV channel appears

If the reception is poor	Press the blue or yellow button to fine tune the TV channel.
If noisy sound is heard	Press the ► button to choose an appropriate sound system.

8 Press the MENU/OK button to exit the menu.

✳ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

To add in the new channel (INSERT in the EDIT menu)

You can add in the new channel in the TV channel list as you like. You need to find the “CH/CC” number for the TV channel. Find the “CH/CC” number corresponding to the channel number of the TV channel from the attached sheet “CH/CC number list” on page 20.

1 Display the INSTALL menu.
⁕ (MENU) ➔ (INSTALL menu)

2 Choose EDIT/MANUAL, then press the MENU/OK button.
EDIT menu appears.

3 Choose the PR number for which you will register a new TV channel. When you add a new TV channel of NTSC-M system, press the SOUND SYSTEM button to change the sound system to M. Then proceed to the next step.

4 Press the green button, then press ▲/▼ buttons to choose “CC” or “CH”.

5 Press the number button to enter the remaining CH/CC number.
The TV starts to search the TV channel, and the picture of the TV channel appears. If the TV finds no TV channel, a noisy picture appears.

When a TV channel has already been registered in PR99, using the INSERT function deletes that TV channel.

⁕ About the basic operations of the menu, please see the “How to operate menus and menus locations” on page 5.

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US	CCIR	OIRT	AUSTRALIA
S-33, W+48	E33		
S-34, W+49	E34		
S-35, W+50	E35		
S-36, W+51	E36		
S-37, W+52	E37		
S-38, W+53	E38		
S-39, W+54	E39		
S-40, W+55	E40		
S-41, W+56	E41		
S-42, W+57	E42		
S-43, W+58	E43		
S-44, W+59	E44		
S-45, W+60	E45		
S-46, W+61	E46		
S-47, W+62	E47		
S-48, W+63	E48		
S-49, W+64	E49		
S-50, W+65	E50		
S-51, W+66	E51		
S-52, W+67	E52		
S-53, W+68	E53		
S-54, W+69	E54		
S-55, W+70	E55		
S-56, W+71	E56		
S-57, W+72	E57		
S-58, W+73	E58		
S-59, W+74	E59		
S-60, W+75	E60		
S-61, W+76	E61		
S-62, W+77	E62		
S-63, W+78	E63		
S-64, W+79	E64		
S-65, W+80	E65		
S-66, W+81	E66		
S-67, W+82	E67		
S-68, W+83	E68		
S-69, W+84	E69		

US	CCIR	OIRT	AUSTRALIA
	S-1		AU-5
	S-2		
	S-3		
	S-4		
	S-5		
	S-6		AU-5A
	S-7		
	S-8		
	S-9		
	S-10		
	S-11		
	S-12		
	S-13		
A	S-14		
B	S-15		
C	S-16		
D	S-17		

CC	US	CCIR	OIRT	AUSTRALIA
CC 18	E	S-18		
CC 19	F	S-19		
CC 20	G	S-20		
CC 21	H	S-21		
CC 22	I	S-22		
CC 23	J	S-23		
CC 24	K	S-24		
CC 25	L	S-25		
CC 26	M	S-26		
CC 27	N	S-27		
CC 28	O	S-28		
CC 29	P	S-29		
CC 30	Q	S-30		
CC 31	R	S-31		
CC 32	S	S-32		
CC 33	T	S-33		
CC 34	U	S-34		
CC 35	V	S-35		
CC 36	W	S-36		
CC 37	W+1	S-37		
CC 38	W+2	S-38		
CC 39	W+3	S-39		
CC 40	W+4	S-40		
CC 41	W+5	S-41		
CC 42	W+6			
CC 43	W+7			
CC 44	W+8			
CC 45	W+9			
CC 46	W+10			
CC 47	W+11			
CC 48	W+12			
CC 49	W+13			
CC 50	W+14			
CC 51	W+15			
CC 52	W+16			
CC 53	W+17			
CC 54	W+18			
CC 55	W+19			
CC 56	W+20			
CC 57	W+21			
CC 58	W+22			
CC 59	W+23			
CC 60	W+24			
CC 61	W+25			
CC 62	W+26			
CC 63	W+27			
CC 64	W+28			
CC 75		X		
CC 76		Y	R3	
CC 77		Z	R4	AU-3
CC 78		Z+1	R5	
CC 79		Z+2		AU-4
CC 95	A-5			
CC 96	A-4			
CC 97	A-3			
CC 98	A-2			
CC 99	A-1			

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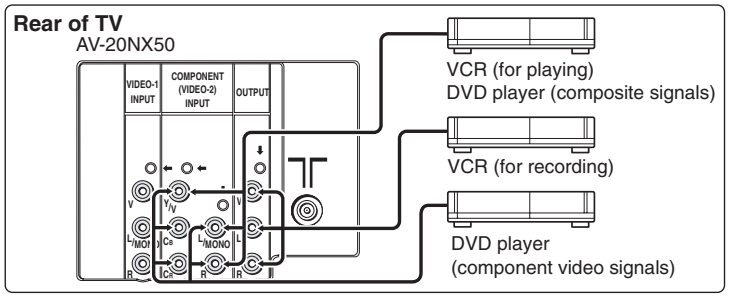
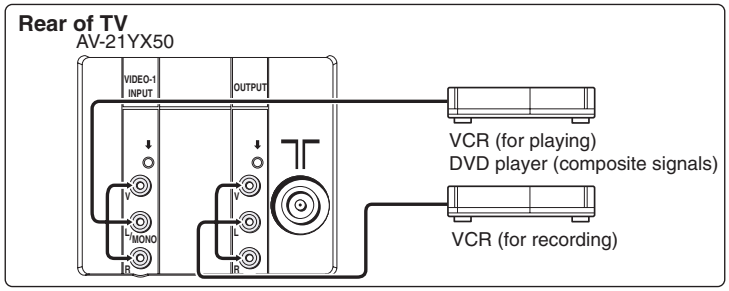
TV game

Connecting to rear component/video input terminal and output terminal





When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (see page 17).

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• Cannot operate the remote control	• The batteries may be exhausted. Replace with new batteries (see page 7). • Ensure that you are operating the remote less than seven meters from the front of your TV.
• Cannot operate the menus	• Press TV/VIDEO button to return to TV mode and try operating the menus.
• Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on (see page 16).
• TV is turned off suddenly	• This may due to the AUTO SHUTOFF function is activated. Press the POWER button to turn on the TV.
• Colour patches appear at the corner of the screen	• This may due to the magnetized device such as a speaker near to your TV. Keep the device apart from your TV. Alternately, you can also use the magnetic-shielded speaker.
• Image takes a short period to be displayed	• Image required time to stabilize before display. This is not a malfunction.
• TV may emitted crackling sound	• This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.
• Feel a slight electric shock when touching the TV screen	• This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.

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UHF channel (U)
nd and hyper band.

L/R input
L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input (For AV-20NX50 only)
L/R input (For AV-20NX50 only)
O L/R output
mm diameter)

ANGUAGE “ on page 12.
ound-multiplex systems or Teletext function
page 3.

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